BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains at Kallappa Layout in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

							Estimate Cost:		2000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	Kallappa layout Cross Road 1		1	70.00	4.00	0.20	56.00		
	Kallappa layout Cross Road 2		1	70.00	4.00	0.15	42.00		
			1	95.00	4.50	0.15	64.13		
			1	31.00	4.50	0.15	20.93		
	Basic Rate	82.00					**183.05**	208.93	**38244.00**
	AD-HOC @ 11% of PWD SR 2016-17	9.02							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		197.10							
	Area Weightage @ 6%	11.83							
	Total	**208.93**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	Kallappa layout Cross Road 1		1	70.00	4.00	0.15	42.00		
	Kallappa layout Cross Road 2		1	70.00	4.00	0.15	42.00		
			1	95.00	4.50	0.15	64.13		
			1	30.00	4.50	0.15	20.25		
	Basic Rate	4867.00					**168.38**	5726.51	**964201.00**
	AD-HOC @ 11% of PWD SR 2016-17	535.37							
	Sub Total	**5402.37**							
	Area Weightage @ 6%	324.14							
	Total	**5726.51**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints **including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. **- M20 (at 300Kg per cum coarse**	Cum							
	Kallappa layout Cross Road 1		1	70.00	4.00	0.125	35.00		
	Kallappa layout Cross Road 2		1	70.00	4.00	0.125	35.00		
			1	95.00	4.50	0.125	53.44		
			1	30.00	4.50	0.125	16.88		
	Basic Rate	5197.00					**140.31**	6114.79	**857981.00**
	AD-HOC @ 11% of PWD SR 2016-17	571.67							
	Sub Total	**5768.67**							
	Area Weightage @ 6%	346.12							
	Total	**6114.79**							
4	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. **Page No. 177 / Item No. 22.7, PWD SR 2016-17**	Sqm							
	Kallappa layout Cross Road 1		1	70.00	4.00		280.00		
	Kallappa layout Cross Road 2		1	70.00	4.00		280.00		
			1	95.00	4.50		427.50		
			1	30.00	4.50		135.00		
	Basic Rate	90.00					**1122.50**	105.89	**118866.00**
	AD-HOC @ 11% of PWD SR 2016-17	9.90							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Sub Total	99.90							
	Area Weightage @ 6%	5.99							
	Total	105.89							
	Sub Total								1979292.00
	For Third Part QC inspection Charges @ 1%								19793.00
	Miscellaneous and other Charges	L/S							915.00
								Total	2000000.00
	Rupees Twenty Lakh(s) Only								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2017-18 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 10

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

17/02

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

17/02

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/c. P-1771
Div. Ref. No. 116/17-18 Date. 17/02/18

AE 17/02

EE(BTP) 17/02

Administrative Approval
Accorded For 20.00 lakhs
Head of A/C P1771
CER NO : 346 Dt. 08-2-2018

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SE (YNK)